**Exam 6 Study Guide**

\*\*Keep in mind that this exam will cover content from both the PowerPoint slides and the chapter modules on Webcourses\*\*

Chapters 44/45

**What is ecology**

**Levels of ecology**

Organismal

Population

Community

Ecosystem

**Biogeography**

**Abiotic Factors**

Water

Energy Sources

Temperature

Inorganic nutrients

Oxygen

Wind

Fire

**Biomes**

Aquatic

 Know the aquatic biomes and the differences between them

Terrestrial

 Know the terrestrial biomes and the differences between them

Chapter 46

**Ecosystem Ecology**

Food chains

Food webs

Disturbance

**Ecosystem Modeling**

Types, purpose, methods

**Trophic Levels**

Energy flow through levels

**Biological Magnification**

**Biogeochemical Cycles**

Hydrologic cycle

Carbon cycle

**Human Impact**

Chapter 47

**Biodiversity**

**Types of Biodiversity**

Species

Genetic

Ecosystem

**Patterns of Biodiversity**

**Five Mass Extinctions**

Ordovician-Silurian

Devonian

Permian

Triassic-Jurassic

Cretaceous

**Holocene**

Human impact

**Extinction Rates**

**Measuring Biodiversity**

Known species

Barcoding

**Conservation**

National and International Agencies

Preserves

Habitat restoration

Captive breeding